

hinder supraorbital notch narrow, elongate, contracted behind by the inflection of the sharp tips of the lobes; upper edge of orbits narrow; the hinder nasal opening narrow, very deep; sides flat, contracted at the top; lower front edge of the zygoma rather dilated, solid. Hind legs short.

“Skull more than twice as long as wide; muzzle and nasal bones very long, the former wider than high, anterior to the molars. Postorbital processes divergent, not in contact behind with the skull.” (*Baird*.)

1. *Cuniculus fodiens*, Klein. (*Lepus cuniculus*, Linn., Waterh. Glir. 64. *L. magellanicus*, Lesson; Blasius, Faun. Deut. (fig. of skull). *L. vermicula*, Thompson.) Europe, North Africa. B.M. Var. *Lepus nigripes*, Bartlett, P. Z. S. 1857, p. 159, t. 56.

Section II. *Skull conical, subcylindrical; nose thick, subcylindrical; cheeks very convex; the front edge of the orbits and the upper hinder processes of the intermaxillaries scarcely raised. Orbits moderate, oblong. Cutting-teeth large, strong; the hinder upper orbital notch open, short; the zygomatic arches broad, flat, and produced behind, over the temple.*

7. CARPOLAGUS, Blyth, J. A. S. Beng. 1845, p. 247. Ears shorter than the head; fur harsh. Skull solid; face broad, rounded on the sides; upper edge of the intermaxillaries thin, even with the nasals. Cutting-teeth very broad; grinders broad; palate long and broad. Anteorbital foramina nearly closed by oblique, transverse, bony spicules. Zygomata very long. Supra-orbital processes continued forward uninterrupted; anterior notch quite filled up with bone, hinder less deep.

*Carpolagus hispidus*, Blyth. (*Lepus hispidus*, Pearson, Waterh. Gl. 78.) Burrows? Assam. B.M.

XXVIII.—*Descriptions of two new Saurians from Mossameles (West Africa).* By J. V. BARBOZA DU BOCAGE.

*Scapateira (?) reticulata.*

*Characters.*—Head narrow, with the muzzle elongated and pointed. No occipital shield. Nostrils situated in the midst of three slightly inflated shields—one naso-rostral and two nasofrenals. No teeth on the palate; tongue emarginate at apex, covered with imbricated squamiform papillæ. Inferior eyelid granular. Palpebral disk bordered with granules without and behind, and preceded by a large shield placed between two very small ones. Subocular shield situated between the seventh and

eighth labials. Anterior margin of the ear furnished with three denticulations. Upper parts and sides of the neck, and the anterior half of the back clothed with very small rounded scales, smooth and not imbricated; on the posterior half of the back and on the base of the tail these scales gradually become larger and more distinctly keeled and imbricated; the rest of the tail is covered with large keeled scales above and below. Ventral shields quadrilateral, smooth, arranged in longitudinal and transverse series; the widest of the latter includes eighteen shields. In the middle of the præanal region there is a large scale surrounded by smaller ones. Femoral pores twenty to twenty-two. Digits smooth beneath, but denticulated on the edges; the anterior less compressed than the posterior.

*Coloration.*—Above (on a ground sometimes fulvous, sometimes with a bluish tinge) all our specimens present a reticulate design of a dark-brown colour. On the head predominates an olive tint punctured or marbled with brown. A blackish streak, more or less interrupted, follows the middle of the dorsal surface of the tail; another similar streak extends along each side of the tail, from its origin to its extremity. The upper surface of the limbs resembles the back. The inferior regions are white or yellowish white.

*Dimensions.*—The largest of our individuals measures 150 millims. in length, of which the head occupies 14, the trunk 37, and the tail 99.

*Habitat.*—Mossamedes, Western Africa. The natives call it *Cocola*, a name which they also give to several other Saurians. The five individuals which we possess were sent to us by our indefatigable travelling naturalist, M. d'Anchieta.

In its characters this reptile seems to approach most closely to the genus *Scapateira*. Thus the position of the nostrils in the midst of three shields, the existence of numerous femoral pores, the structure of the dorsal scales and ventral shields, the denticulations with which the edges of the digits are furnished, and the presence of an antepectoral fold are so many characters which it has in common with the single species of that genus, *Scapateira grammica*. Nevertheless it presents certain differences of some importance, such as the absence of an occipital shield, and especially the conformation of the anterior digits, which have no well-marked flattening. This is why we hesitate in referring it to the genus *Scapateira*.

#### PACHYRHYNCUS, genus novum.

This new genus that we propose is established upon the examination of a single adult individual lately received from Mossamedes through M. d'Anchieta.

It belongs to the Lacertia (*Cælodontes pristidactyles* of the 'Erpétologie Générale'). From its general organization it is in the vicinity of the genera *Acanthodactylus* and *Eremias*, perhaps between the two, that it should be placed; but the flattening of its head and the extraordinary widening of its muzzle give it a peculiar physiognomy, and render it perfectly distinct from all other Saurians in general.

*Generic characters.*—Head wide and flattened; muzzle much depressed, wide, spatulate, with its trenchant margins greatly exceeding the outline of the opening of the mouth (figs. 1 & 2).

Fig. 1.

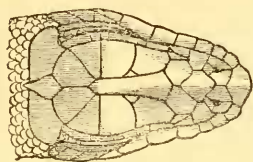
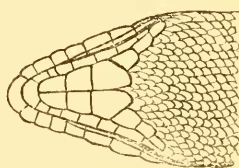


Fig. 2.



Tongue sagittate, emarginate at its extremity, covered with squamiform papillæ. Palate not furnished with teeth. Nostrils looking directly upward, placed in the midst of three shields, as in *Eremias*. Rostral shield much depressed, forming with the first seven superior labials the projecting border of the muzzle. No free antepectoral fold. Ventral shields smooth, forming regular longitudinal and transverse bands. Tail broad and depressed at the base, rounded throughout the rest of its extent. No femoral pores. Five unequal digits on each foot; these are compressed, covered with smooth scales beneath, and denticulated at the edges.

*Pachyrhyncus Anchieta*, sp. n.

No occipital plate. Lower eyelid covered with granulations. Auricular opening narrow, its anterior margin smooth, without denticulations. Nostrils bordered by three shields—one nasorostral and two freno-nasals. Nine superior labials, of which the first seven form with the rostral the trenchant margin of the muzzle. One subocular shield, in contact by its lower margin with the fifth, sixth, and seventh superior labials. Scales of the back and base of the tail very small, smooth, slightly inflated, not imbricated; those of the rounded portion of the tail large, imbricated, and keeled. Ventral shields quadrilateral, of moderate size, nearly equal, arranged in from twenty to twenty-four longitudinal rows, and bordered upon the flanks by several rows of similar but smaller shields. Præanal scales numerous, small, nearly equal.

We may refer to figs. 1 and 2 for more ample details as to the scaling of the head.

*Coloration.*—The upper parts exhibit a fine golden-yellow tint; an elongated black spot covers the occiput; a black streak is continued upon the dorsal line from the region of the fore limbs as far as the anterior third of the tail; on both sides the back is covered, down to the flanks, with a large-meshed black network, having a very pretty effect; the upper surface of the limbs presents a similar pattern. The head and the temples are variegated with black; beneath each eye a great number of small black spots form an elongated spot, which is prolonged from the fourth to the last of the labials. A black line follows the lateral margin of the tail from the base. The lower parts are of a uniform white or whitish tint.

*Dimensions.*—Total length 112 millims.; head 17, trunk 13, tail 57.

*Habitat.*—Mossamedes. A single individual.

We have received from the same locality, through M. d'Anchieta, several rare and interesting reptiles, such as—

Sauria: *Chamaleo namaquensis* (Smith), *Homodactylus Bibroni*, *Euprepes Olivieri*, *E. Merremii*, *Mochlus afer*, *Anelytrops elegans*.

Ophidia: *Cerastes caudalis*, *Psammophis*, sp.?

Batrachia: *Dactylethra Müllereri*, *Bufo spinosus*.

Lisbon, July 9, 1867.

## MISCELLANEOUS.

### *On the Development of the Ctenophora.*

By A. KOWALEWSKY.

THE author has carefully traced the development of the egg in various Ctenophora, and has arrived at some very curious results, especially with regard to the first phases of evolution.

In the *Eschscholtzia* (and the other Ctenophora seem to be in the same case) two layers may be distinguished in the vitellus,—the external one very thin, formed of true protoplasm, the other central, consisting of an emulsion of large fatty drops. Acetic acid produces a granular precipitate in the former, but has no action on the second. The distinction of these two layers is important, as the former alone plays the part of a formative vitellus, the second behaving as a vitellus of nutrition.

The segmentation into two and then into four and eight parts is effected in such a manner that each of the spheres of segmentation presents the two layers, like the original vitellus. These spheres are *completely destitute of nuclei*. At this period a remarkable phenomenon takes place. In each of the eight spheres of segmentation